



Substitute Form 1449A/PTO				Complete If Known	
				Application Number	10/734,963
				Filing Date	December 11, 2003
				First Named Inventor	Hou-Pu Chou
				Art Unit	1744
				Examiner Name	Brian J. Sines
Sheet	1	of	23	Attorney Docket Number	020174-009630US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-2,656,508	10-20-1953	Coulter	
	A2	US-3,560,754	02-02-1971	Kamentsky	
	A3	US-3,570,515	03-16-1971	Kinner	
	A4	US-3,747,628	07-24-1973	Holster et al.	
	A5	US-4,046,159	09-06-1977	Pegourie	
	A6	US-4,119,368	10-10-1978	Yamakazi	
	A7	US-4,153,855	05-08-1979	Feingold	
	A8	US-4,245,673	01-20-1981	Bouteille et al.	
	A9	US-4,373,527	02-15-1983	Fischell	
	A10	US-4,434,704	03-06-1984	Surjaatmadja	
	A11	US-4,575,681	03-11-1986	Grosso et al.	
	A12	US-4,581,624	04-08-1986	O'Connor	
	A13	US-4,585,209	04-29-1986	Aine et al.	
	A14	US-4,662,710	05-05-1987	ten Berge	
	A15	US-4,675,300	06-23-1987	Zare et al.	
	A16	US-4,786,165	11-22-1988	Yamamoto et al.	
	A17	US-4,898,582	02-06-1990	Faste	
	A18	US-4,908,112	03-13-1990	Pace	
	A19	US-4,963,498	10-16-1990	Hillman et al.	
	A20	US-4,992,312	02-12-1991	Frisch	
	A21	US-5,032,381	07-16-1991	Bronstein et al.	
	A22	US-5,085,562	02-04-1992	Van Lintel	
	A23	US-5,088,515	02-18-1992	Kamen	
	A24	US-5,096,388	03-17-1992	Weinberg	

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Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	A25	US-5,126,022	06-30-1992	Soane et al.
	A26	US-5,126,115	06-30-1992	Fujita et al.
	A27	US-5,140,161	08-18-1992	Hillman et al.
	A28	US-5,164,558	11-17-1992	Huff et al.
	A29	US-5,164,598	11-17-1992	Hillman et al.
	A30	US-5,171,132	12-15-1992	Miyazaki
	A31	US-5,224,843	07-06-1993	Van Lintel
	A32	US-5,259,737	11-09-1993	Kamisuki et al.
	A33	US-5,265,327	11-30-1993	Farls et al.
	A34	US-5,271,724	12-21-1993	van Lintel
	A35	US-5,280,240	03-01-1994	Horres, Jr.
	A36	US-5,336,062	08-09-1994	Richter
	A37	US-5,346,372	09-13-1994	Naruse et al.
	A38	US-5,375,979	12-27-1994	Trah
	A39	US-5,376,252	12-27-1994	Ekstrom
	A40	US-5,400,741	03-28-1995	DeTitta et al.
	A41	US-5,423,287	06-13-1995	Usami et al.
	A42	US-5,434,049	07-18-1995	Okuno et al.
	A43	US-5,452,878	09-26-1995	Gravesen et al.
	A44	US-5,486,335	01-23-1996	Wilding et al.
	A45	US-5,498,392	03-12-1996	Wilding et al.
	A46	US-5,500,071	03-19-1996	Kaltenbach et al.
↓	A47	US-5,512,131	04-30-1996	Kumar et al.
	A48	US-5,529,465	06-25-1996	Zengerle et al.

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		Number Kind Code ² (if known)			
	A49	US-5,558,898	09-24-1996	Hammond et al.	
	A50	US-5,580,523	12-03-1996	Bard	
	A51	US-5,589,136	12-31-1996	Northrup et al.	
	A52	US-5,593,130	01-14-1997	Hansson et al.	
	A53	US-5,632,876	05-27-1997	Zanzucchi et al.	
	A54	US-5,641,400	06-24-1997	Kaltenbach et al.	
	A55	US-5,642,015	06-24-1997	Whitehead et al.	
	A56	US-5,659,171	08-19-1997	Young et al.	
	A57	US-5,660,370	08-26-1997	Webster	
	A58	US-5,661,222	08-26-1997	Hare	
	A59	US-5,665,070	09-09-1997	McPhee	
	A60	US-5,681,024	10-28-1997	Lisec et al.	
	A61	US-5,702,618	12-30-1997	Saaski et al.	
	A62	US-5,705,018	01-06-1998	Hartley	
	A63	US-5,716,852	02-10-1998	Yager et al.	
	A64	US-5,726,751	03-10-1998	Altendorf et al.	
	A65	US-5,750,015	05-12-1998	Soane et al.	
	A66	US-5,757,482	05-26-1998	Fuchs et al.	
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	A71	US-5,833,926	11-10-1998	Wurzel et al.	
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	A73	US-5,837,200	11-17-1998	Diessel et al.	
	A74	US-5,842,787	12-01-1998	Kopf-Sill et al.	
	A75	US-5,852,495	12-22-1998	Parce	
	A76	US-5,856,174	01-05-1999	Lipshutz et al.	
	A77	US-5,863,801	01-26-1999	Southgate et al.	
	A78	US-5,869,004	02-09-1999	Parce et al.	
	A79	US-5,875,817	03-02-1999	Carter	
	A80	US-5,876,187	03-02-1999	Afromowitz	
	A81	US-5,880,071	03-09-1999	Parce et al.	
	A82	US-5,904,824	05-18-1999	Oh	
	A83	US-5,932,799	08-03-1999	Moles	
	A84	US-5,942,443	08-24-1999	Parce et al.	
	A85	US-6,007,309	12-28-1999	Hartley	
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	A87	US-6,123,769	09-26-2000	Sanjoh	
	A88	US-6,155,282	12-05-2000	Zachary et al.	
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	A90	US-6,221,654 B1	04-24-2001	Quake et al.	
	A91	US-6,246,330 B1	06-12-2001	Nielsen	
	A92	US-6,296,673 B1	10-02-2001	Santarsiero et al.	
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	A97	US-2002-0045297 A1	04-18-2002	Leedy	
	A98	US-6,376,971 B1	04-23-2002	Petrine et al.	
	A99	US-6,409,832 B2	06-25-2002	Weigl et al.	
	A100	US-2003-0008308 A1	01-09-2003	Enzelberger et al.	
	A101	US-6,520,936 B1	02-18-2003	Mann	
	A102	US-6,540,895 B2	04-01-2003	Quake et al.	
	A103	US-2003-0080442 A1	05-01-2003	Unger	
	A104	US-2003-0138829 A1	07-24-2003	Unger et al.	
	A105	US-6,667,124 B2	12-23-2003	Suenaga et al.	
	A106	US-2004-0115838 A1	06-17-2004	Quake et al.	
	A107	US-6,767,706 B2	07-27-2004	Quake et al.	
	A108	US-2004-0248167 A1	12-09-2004	Quake et al.	
	A109	US-6,833,242 B2	12-21-2004	Quake et al.	
	A110	US-6,847,153 B1	01-25-2005	Balizer	
	A111	US-2005-0037471 A1	02-17-2005	Liu et al.	
	A112	US-2005-0053952 A1	03-10-2005	Hong et al.	
	A113	US-2005-0123947 A1	06-09-2005	Quake et al.	
	A114	US-2005-0197652 A1	09-08-2005	Nat	
	A115	US-2005-0221373 A1	10-06-2005	Enzelberger et al.	
	A116	US-6,960,437	11-01-2005	Enzelberger et al.	

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
	B1	EP	0 592 094	A2	04-13-1994	International Business Machines Corporation	<input type="checkbox"/>
	B2	EP	0 703 364	A1	03-27-1996	Fraunhofer-Gesellschaft Zur Förderung Der Angewandten Forschung E.V.	<input type="checkbox"/>
	B3	EP	0 706 004	A2	04-10-1996	Bayer Corporation	<input type="checkbox"/>
	B4	EP	0 745 682	B1	12-04-1996	Bayer AG	<input type="checkbox"/>
	B5	EP	0 778 351	B1	06-11-1997	Hitachi, Ltd.	<input type="checkbox"/>
	B6	EP	0 779 436	A2	06-18-1997	Frank T. Hartley	<input type="checkbox"/>
	B7	EP	0 829 360	A2	03-18-1998	Xerox Corporation	<input type="checkbox"/>
	B8	EP	0-845 603	A1	06-03-1998	Xerox Corporation	<input type="checkbox"/>
	B9	EP	0 999 055	A2	05-10-2000	Samsung Electronics Co., Ltd.	<input type="checkbox"/>
	B10	GB	2 155 152	A	09-18-1985	Allied Corporation	<input type="checkbox"/>
	B11	GB	2 264 296	A	08-25-1993	Zortech International Limited	<input type="checkbox"/>
	B12	GB	2 264 496	A	09-01-1993	United States Department of Energy	<input type="checkbox"/>
	B13	GB	2 308 460	A	06-25-1997	Daewoo Electronics Co., Ltd.	<input type="checkbox"/>
	B14	WO	91/13338	A2	09-05-1991	Hatfield Polytechnic Higher Education Corporation	<input type="checkbox"/>
	B15	WO	91/15750	A1	10-17-1991	Carrimed Ltd.	<input type="checkbox"/>
	B16	WO	94/05414	A1	03-17-1994	The Regents of the University of California	<input type="checkbox"/>

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	B17	WO	95/33846	A1	12-14-1995	Affymax Technologies N.V.		<input type="checkbox"/>
	B18	WO	95/33853	A1	12-14-1995	University of Tennessee Research Corporation		<input type="checkbox"/>
	B19	WO	97/02357	A1	01-23-1997	Affymetrix, Inc.		<input type="checkbox"/>
	B20	WO	97/38300	A1	10-16-1997	Soane Biosciences		<input type="checkbox"/>
	B21	WO	98/07069	A1	02-19-1998	The Regents Of The University Of Michigan		<input type="checkbox"/>
	B22	WO	98/08931	A1	03-05-1998	BTG USA Inc.		<input type="checkbox"/>
	B23	WO	99/00655	A2	01-07-1999	Immunetics		<input type="checkbox"/>
	B24	WO	99/04361	A1	01-28-1999	Diversified Scientific, Inc.		<input type="checkbox"/>
	B25	WO	99/17093	A1	04-08-1999	The Regents Of The University Of Michigan		<input type="checkbox"/>
	B26	WO	99/52633	A1	10-21-1999	Lumenal Technologies, L.P.		<input type="checkbox"/>
	B27	WO	00/00678	A1	01-06-2000	University Of Washington		<input type="checkbox"/>
	B28	WO	00/43748	A1	07-27-2000	YSI Incorporated		<input type="checkbox"/>
	B29	WO	00/60345	A1	10-12-2000	University Of Alabama At Birmingham Research Foundation		<input type="checkbox"/>
	B30	WO	01/06529	A1	01-25-2001	Moeller GmbH		<input type="checkbox"/>
	B31	WO	01/06575	A1	01-25-2001	SRI International		<input type="checkbox"/>

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<i>[Signature]</i>	B32	WO	01/09595	A2/A3	02-08-2001	Emerald Biostructures, Inc.
						<input type="checkbox"/>

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	C1	"Biochips," Nature Biotechnology, Vol. 18, Supplement 2000, pp. IT43-IT44, 2000		
	C2	"Chapter 9: Microfluidic Devices," Micromachined Transducers Sourcebook, pp. 779-882, 1998		
	C3	"Electro Microfluidic Dual In-Line Package (EMDIP)," Sandia National Laboratories, 2 pages, no date		
	C4	"Last Chance For Micromachines," The Economist Technology Quarterly, 8 pages, December 7, 2000		
	C5	"The Liver Chip," Technology Review, pp. 64-67, March 2003		
	C6	AFFHOLTER, JOSEPH et al., "Engineering A Revolution," Chemistry in Britain, pp. 48-51, April 1999		
	C7	AWN, CHONG H. et al., "Fluid Micropumps Based On Rotary Magnetic Actuators," Proceedings of 1995 IEEE Micro Electro Mechanical Systems Workshop (MEMS '95), Amsterdam, Netherlands, pp. 408-412, January 29 - February 2, 1995		
	C8	ANDERSON, JANELLE R. et al., "Fabrication Of Topologically Complex Three-Dimensional Microfluidic Systems In PDMS By Rapid Prototyping," Analytical Chemistry, Vol. 72, No. 14, pp. 3158-3164, July 15, 2000		
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				First Named Inventor	Hou-Pu Chou
				Art Unit	1744
				Examiner Name	Brian J. Sines
				Attorney Docket Number	020174-009630US

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				Art Unit	1744
				Examiner Name	Brian J. Sines
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Substitute for form 1449B/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
(use as many sheets as necessary)					
Sheet	23	of	23		
				Application Number	10/734,963
				Filing Date	December 11, 2003
				First Named Inventor	Hou-Pu Chou
				Art Unit	1744
				Examiner Name	Brian J. Sines
				Attorney Docket Number	020174-009630US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	C219	XUE, QIFENG et al., "Multichannel Microchip Electrospray Mass Spectrometry," <i>Analytical Chemistry</i> , Vol. 69, No. 3, pp. 426-430, February 1, 1997		
	C220	YANG, T. J. et al., "An Apertureless Near-Field Microscope For Fluorescence Imaging," <i>Applied Physics Letters</i> , Vol. 76, No. 3, pp. 378-380, January 17, 2000		
	C221	YANG, XING et al., "A Low Power MEMS Silicone/Parylene Valve," <i>Solid-State Sensor and Actuator Workshop</i> , Hilton Head Island, South Carolina, 4 pages, June 7-11, 1998		
	C222	YANG, XING et al., "A MEMS Thermopneumatic Silicone Membrane Valve," <i>IEEE 10th Annual International Workshop of Micro Electro Mechanical Systems</i> , Nagoya, Japan, pp. cover, 114-118, January 26-30, 1997		
	C223	YAZDI, NAVID et al., "Micromachined Inertial Sensors," <i>Proceedings of IEEE</i> , Vol. 86, No. 8, pp. 1640-1659, August 1998		
	C224	YOUNG, A. M. et al., "Contoured Elastic-Membrane Microvalves For Microfluidic Network Integration," <i>Journal of Biomechanical Engineering</i> , Vol. 121, pp. 2-6, February 1999		
	C225	ZACCOLO, MANUELA et al., "A Genetically Encoded, Fluorescent Indicator For Cyclic AMP In Living Cells," <i>Nature Cell Biology</i> , Vol. 2, pp. 25-29, January 2000		
	C226	ZINGERLE, R. et al., "A Micro Membrane Pump With Electrostatic Actuation," <i>Micro Electro Mechanical Systems '92</i> , Travemünde, Germany, pp. 19-24, February 4-7, 1992		
	C227	ZINGERLE, R. et al., "Performance Simulation Of Microminiaturized Membrane Pumps," <i>7th International Conference on Solid-State Sensors and Actuators</i> , Yokohama, Japan, pp. 2 cover pages, 106-109, June 7-10, 1993		
	C228	ZHANG, B. et al., "Microfabricated Devices For Capillary Electrophoresis-Electrospray Mass Spectrometry," <i>Analytical Chemistry</i> , Vol. 71, No. 15, pp. 3258-3264, August 1, 1999		
	C229	ZHAO, ZHAN, et al., "An Integrated Biochip Design And Fabrication," <i>Proceedings of SPIE</i> , Vol. 4936, pp. 321-326, 2002		

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Examiner Signature	Date Considered
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